

Fig 00: A fractal approach to industry sector analysis

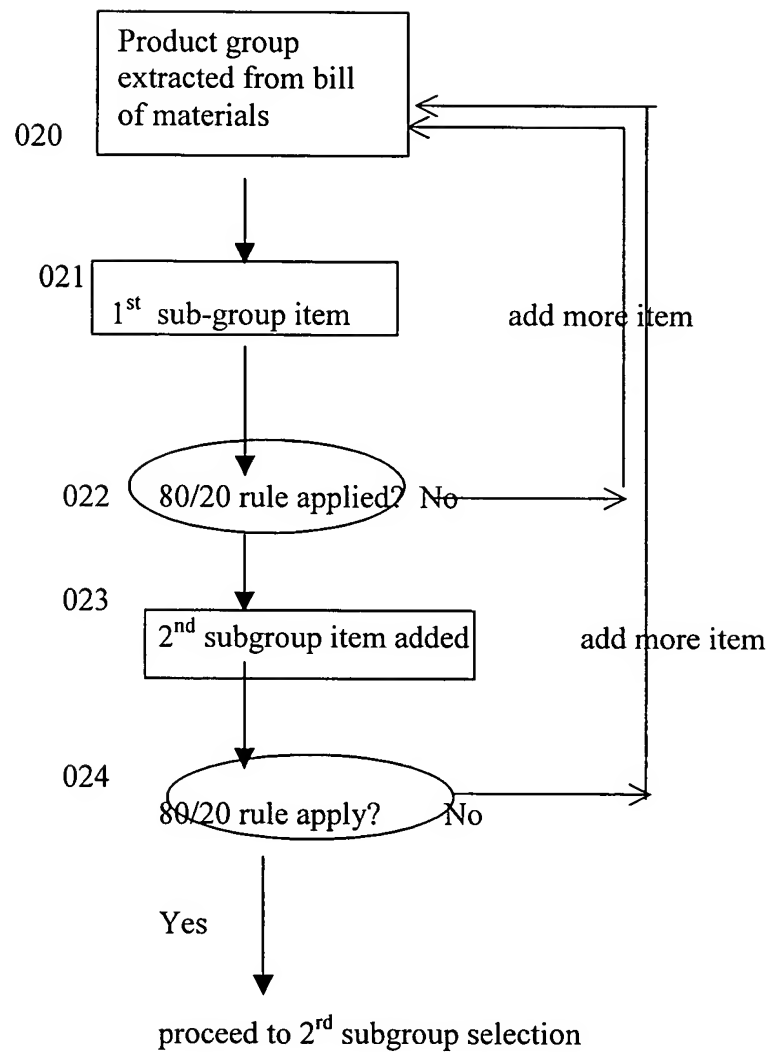


Fig. 02- Application of Pareto's Distribution Law

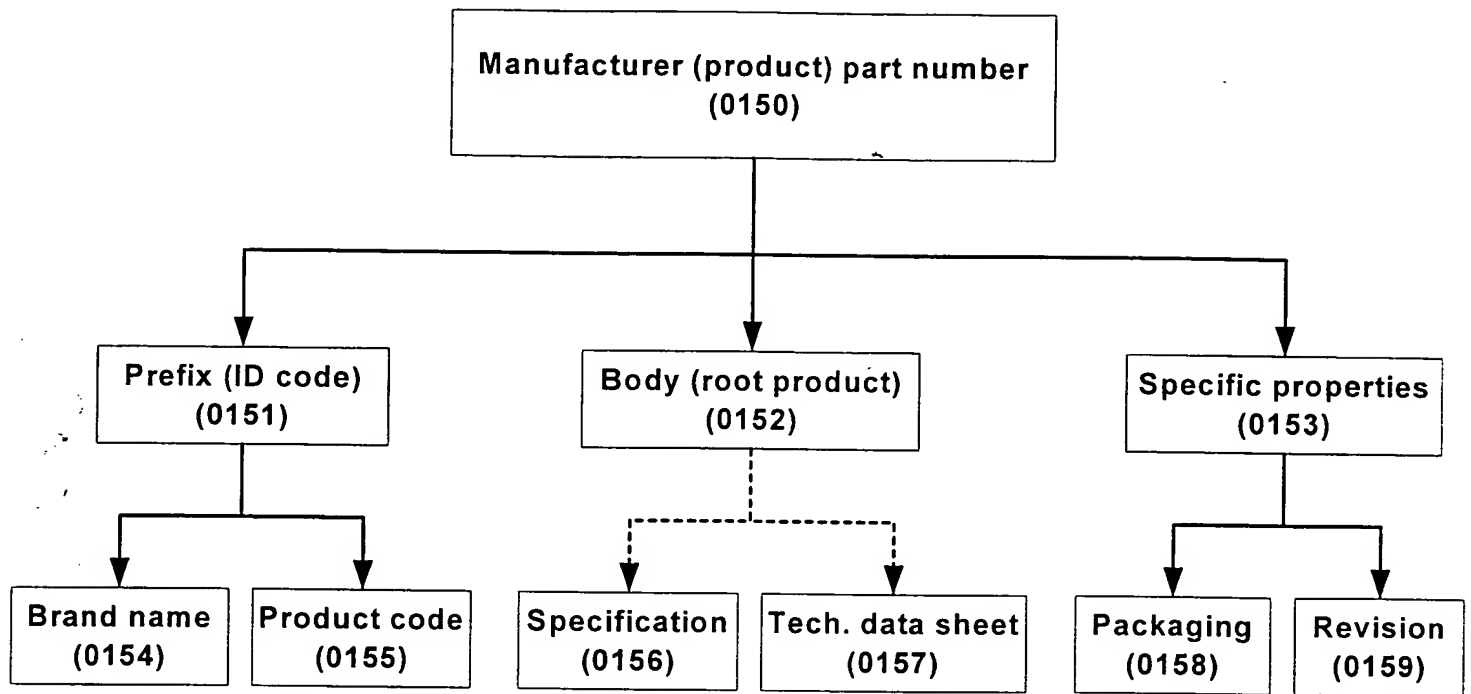


Fig 015: Breakdown of part number - industry standard

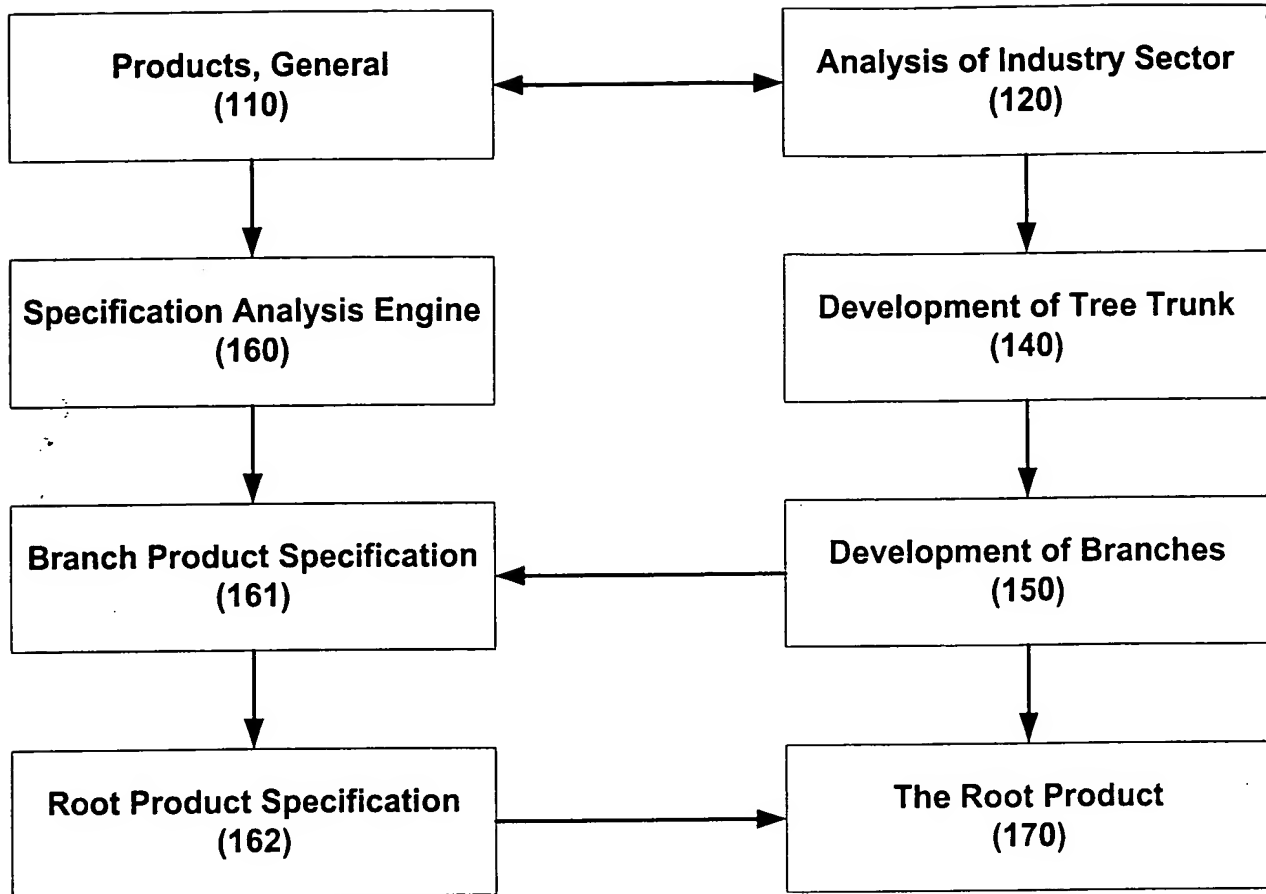


Fig 3: Root Extraction Process 300

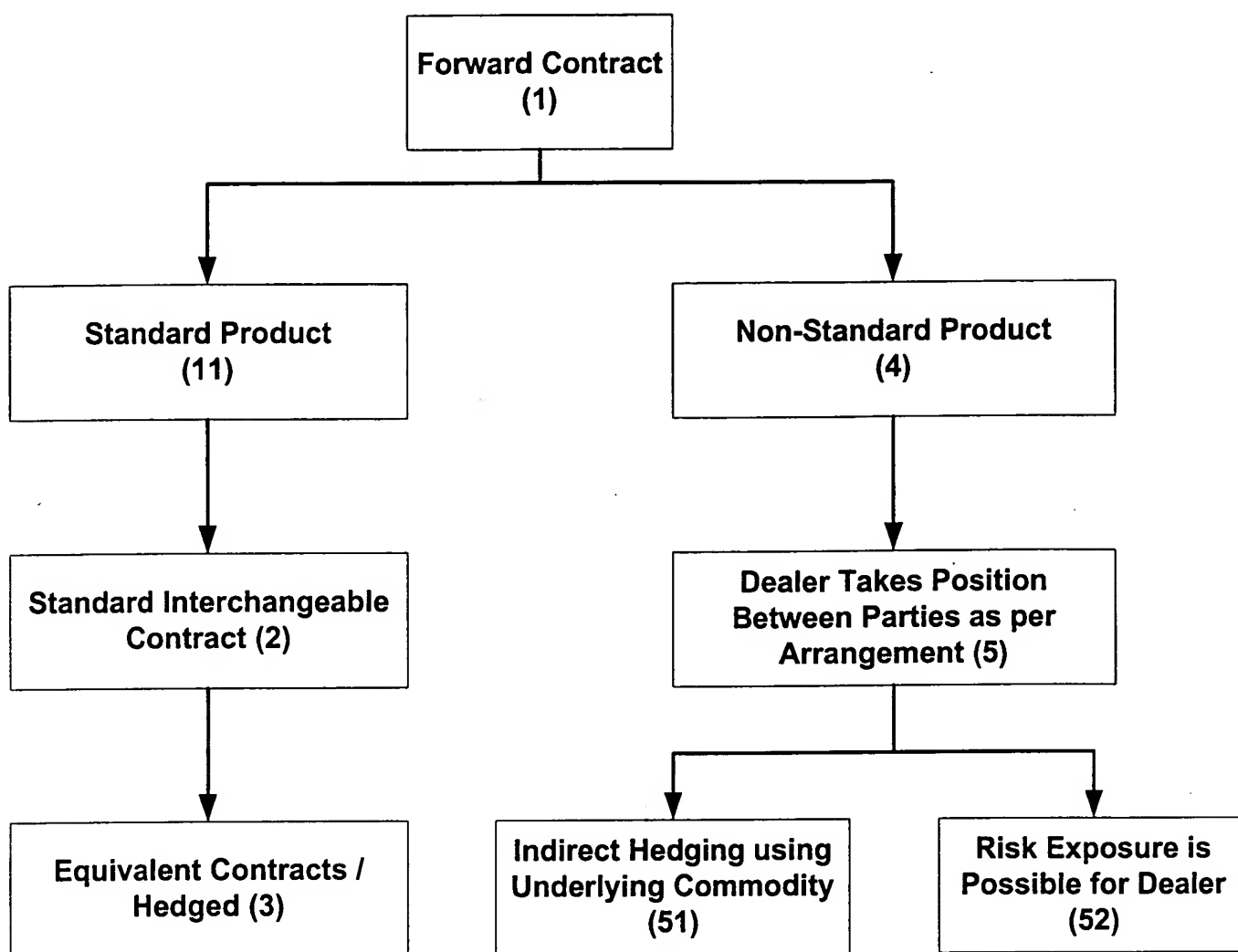


Fig 4: Existing Forwards Platform 100

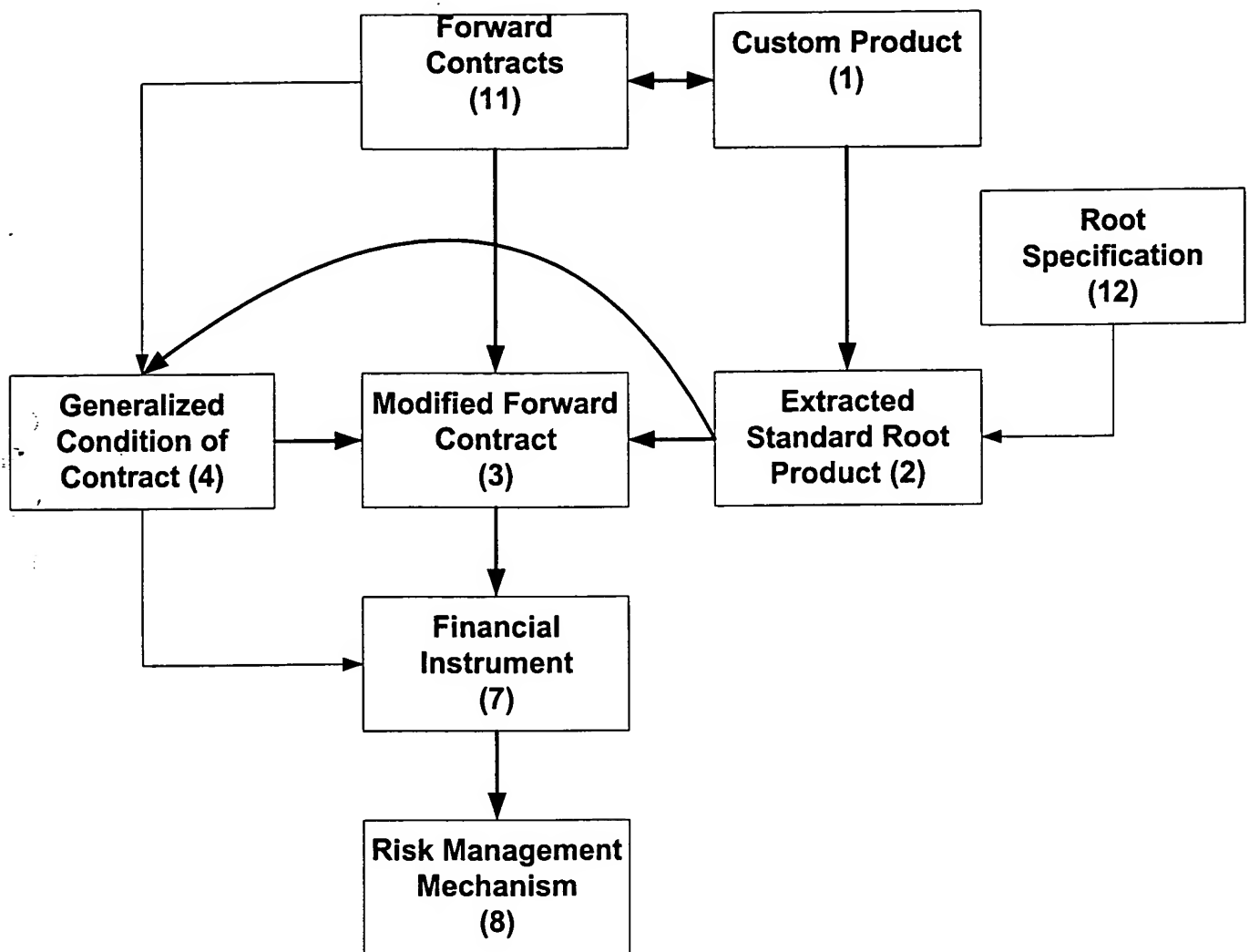


Fig 5: New Platform 200

Item 1	Product Classification	a) Name (any) b) Description (any) c) Unit (no, pounds, ton, gallon, ounce) d) lot size(10,100,200, 500, 1000,10000,20000, 50000) e) code (any)
Item 2	Delivery Frequency	a) date: 30 day, 60 day, 90 day b) date: calendar months c) notice dates: T-x1, T-x2
Item 3	Trading Rules	a) marketplace (hybrid, futures, spot) b) all months c) hours (8am-2pm EST), (9am-3pm PST), (11am-5pm GMT), (9am-3pm pacific) d) week begins (Sunday, Monday) e) week ends (Friday)
Item-4	Pricing Mechanism	a) minimum fluctuation (1/100, 1/20, 1/10 of currency) b) daily limit (percentage of nominal contract value ;5%, 6%,7%,8%,9%,10%), c) currency (usd, usd & euro, usd & JPY, usd & local currency)
Item-5	Financial Clearing	via Fiduciary account residing at commercial bank
Item-6	Settlement Procedure	a) cash offset following financial clearing b) physical delivery made against cash payment

Fig. 6-Generalized Contract Design 600

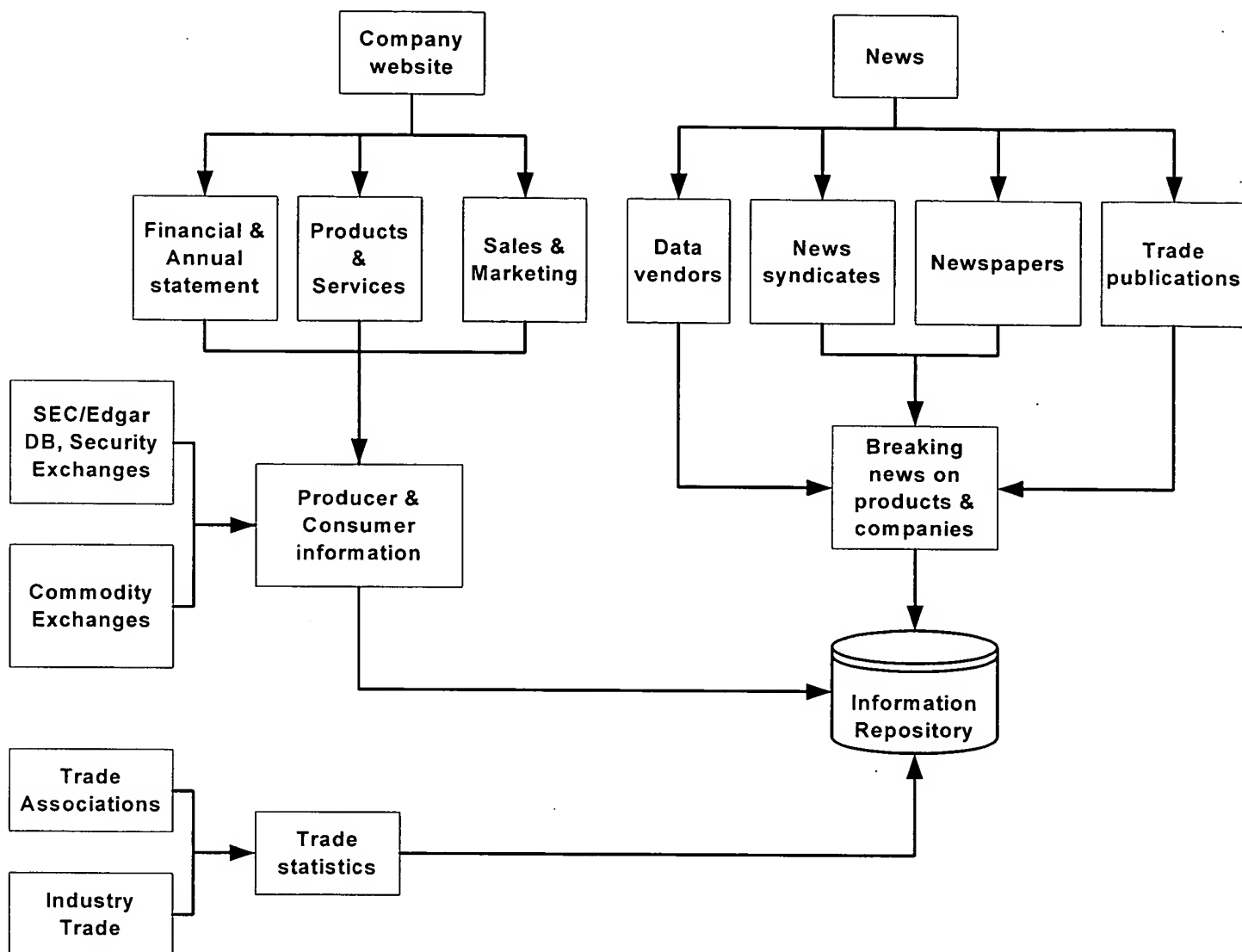
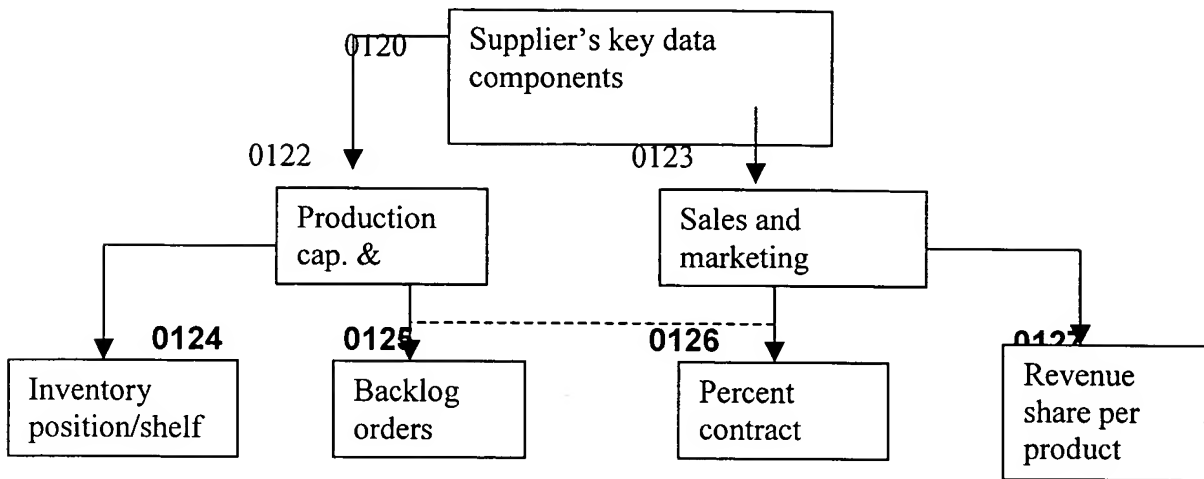


Fig 0112: Public Data Collection

a) News providing supply data:



b) News providing demand data:

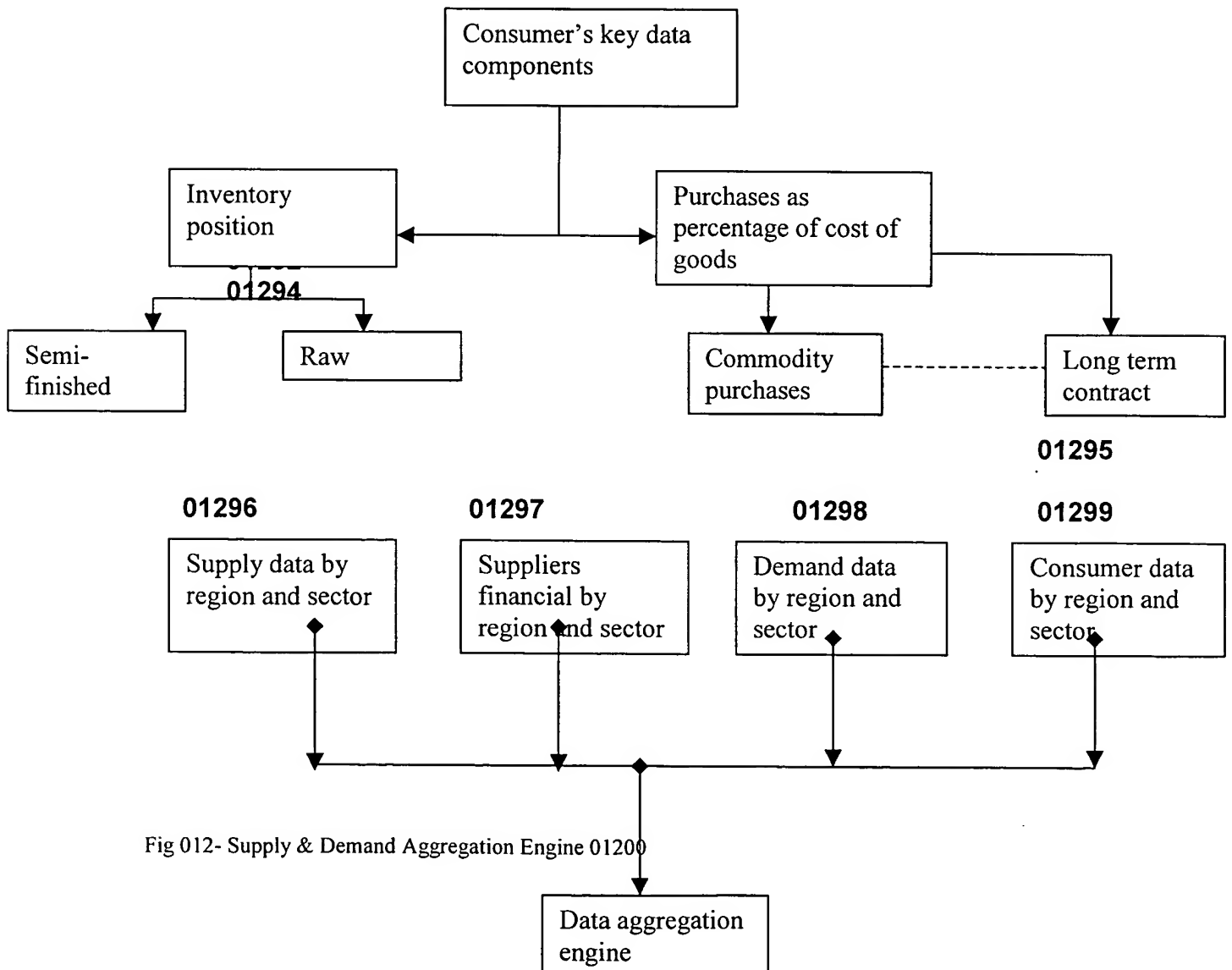


Fig 012- Supply & Demand Aggregation Engine 01200

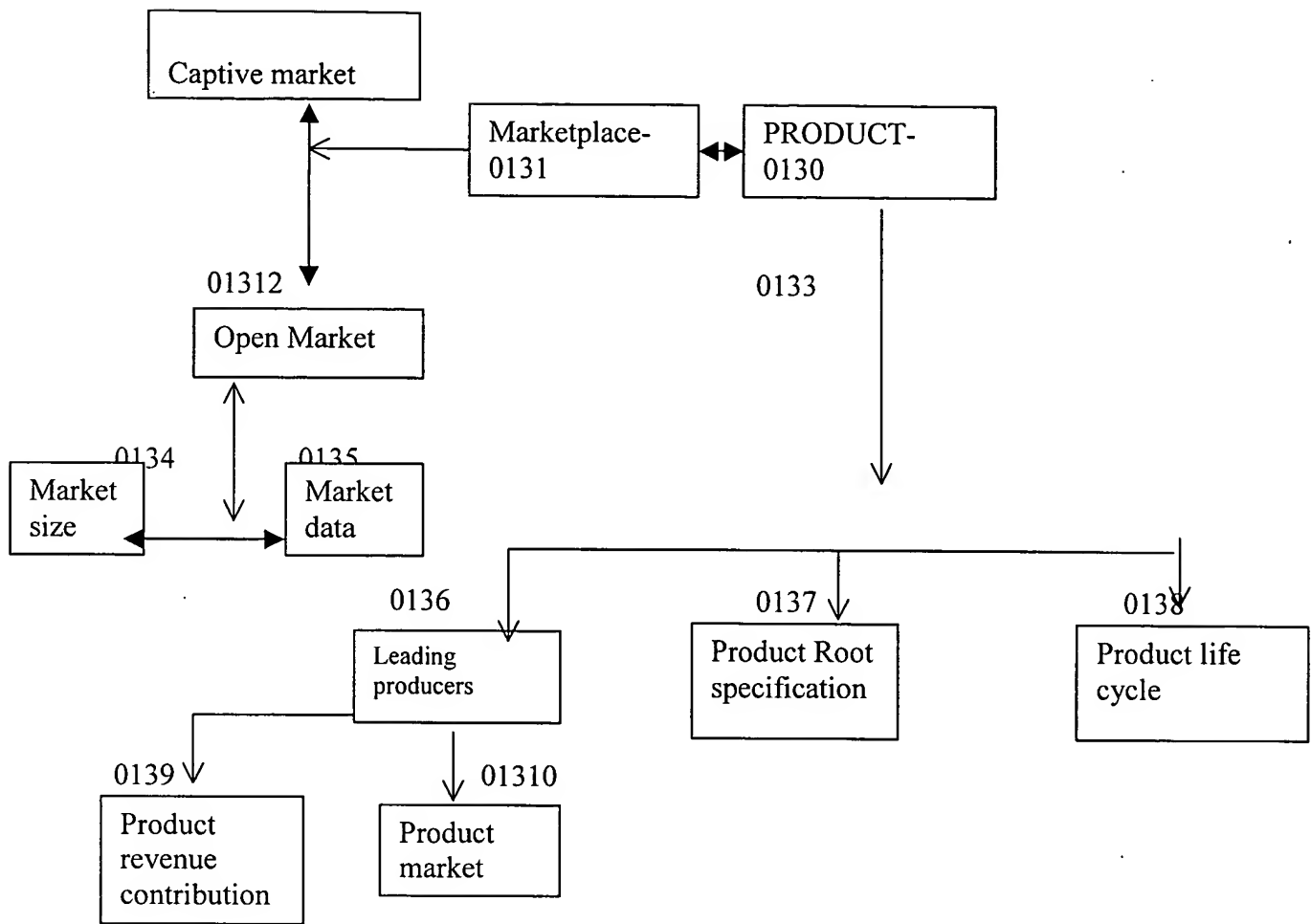
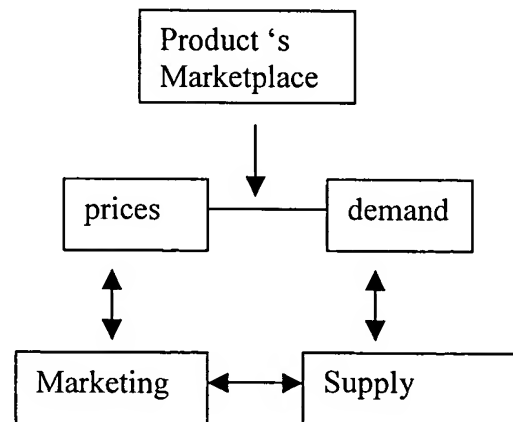


Fig 013. Product intelligence



Information	Primary source	Secondary source	Fee-based services
Product line	Company's website	Distributors website	
Key products	Company's financial	suppliers websites	Market researchers
Product market share	Company's report	Trade associations	Market researchers
Product prices	Open market	Supplier website	Daily survey

TABLE 11- Sources of Data

Industry sector	public companies	Market size in 1000	Sub-Sector targeted	Average growth rate	Average Volatility
Electronics	800	450,000,000	Semicon	15%	50%
Chemical	300	350,000,000	plastics	8%	10%
Electrical	56	320,000,000	wholesale	4%	15%

Table 12- Example of aggregate marketing data

company	Last quarter/ projected sales	Global market share	Comm 1	Comm 2	Contribution to sales/cost of goods	Currency translation \$1,000
Micron	700,000,000	18% , 2001	memories	-	80%	400,000
Dell	8.5 billion		memories	interconnect	35%	2,000,000

Table. 13- Example of producer and consumer of same product

1. FOR EACH SECTOR

Industry	Public companies	Market size	Average growth rate	Average volatility
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2. FOR EACH PRODUCER/CONSUMER ENTITY

Entity	Last reported revenue	Last reported cost of sales	% commodity related market share
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Entity	Commodity 1 , % of revenue	Commodity 2, % of revenue	Commodity 3, % of revenue
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Entity	Currency 1, % of transaction	Currency 2, % of transaction	Currency 3, % of transaction
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3. FOR EACH PRODUCT

Product description	Product symbol	Spot closing in USD	Spot closing in Jyen	Spot closing in Euro
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Product description	Product symbol	30 day forward closing price	90 day forward closing price
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Product description	Product symbol	Total available market	Relative market strength
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Tables 14- The Database